## WHAT IS CLAIMED IS:

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- 1. A protection circuit, to be provided for a circuit arrangement having an inductive load and an FET as an N-channel MOS transistor provided upstream of the load with respect to a flow of power current, the FET controlling an energization state of the load, the protection circuit comprising:
- a first connection changer interposed on a connection line between a gate of the FET and a gate drive voltage supply source, the first connection changer changing a connection state between a first connection state in which the gate is connected to the gate drive voltage supply and a second connection state in which the gate is connected to a ground.
- 2. The protection circuit according to claim 1, further
  15 comprising:
  - a first resistor interposed between the gate and a source of the FET; and
- a second resistor interposed between the gate and the first connection changer or between the first connection changer 20 and the ground.
  - 3. The protection circuit according to claim 2, further comprising:
- a second connection changer interposed on a connection line between the gate and the source of the FET, the second

connection changer for connecting and disconnecting the connection line;

wherein the first resistor is interposed on the connection line.

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- 4. Aprotection circuit, to be provided for a circuit arrangement having an inductive load and an FET as an N-channel MOS transistor provided upstream of the load with respect to a flow of power current, the FET controlling an energization state of the load, the protection circuit comprising:
  - a first connection changer interposed between a portion on a first connection line and a ground, the first connection changer connecting and disconnecting between the portion and the ground;
- wherein the first connection line connects a gate of the FET and a gate drive voltage supply source.
  - 5. The protection circuit according to claim 4, further comprising:
- a first resistor interposed on a second connection line between the gate and a source of the FET; and
  - a second resistor interposed on a route from the gate to the ground through the first connection line and the connection changer.

- 6. The protection circuit according to claim 5, further comprising:
- a second connection changer interposed on the second connection line between the gate and the source of the FET, the second connection changer connecting and disconnecting the second connection line;

wherein the first resistor is interposed in the second connection line.

- 7. Aprotection circuit, to be provided for a circuit arrangement having an inductive load and an FET as a P-channel MOS transistor, the FET for controlling an energization state of the load, the protection circuit comprising:
- a connection changer interposed on a connection line

  between a gate of the FET and a ground, the connection changer

  changing a connection state between a first connection state

  in which the gate is connected to the ground and a second

  connection state in which the gate is connected to a source

  of the FET;
- a first resistor interposed between the gate of the FET and the connection changer or between the connection changer and the source of the FET; and
  - a second resistor interposed between the gate and the drain of the FET.

- 8. Aprotection circuit, to be provided for a circuit arrangement having an inductive load and an FET as a P-channel MOS transistor, the FET controlling an energization state of the load, the protection circuit comprising:
- a connection changer interposed between a portion, on a connection line between a gate and a source of the FET, and a ground, the connection changer connecting and disconnecting between the portion and the ground;
- a first resistor interposed on a route of from the gate

  10 of the FET to the source thereof through the connection line;

  and
  - a second resistor interposed between the gate and a drain of the FET.
- 9. Aprotection circuit, to be provided for a circuit arrangement having an inductive load and an IGBT provided upstream of the load with respect to a flow of power current, the IGBT controlling an energization state of the load, the protection circuit comprising:
- a connection changer interposed on a connection line between a gate of the IGBT and a gate drive voltage supply source, the connection changer changing a connection state between a first connection state in which the gate is connected to the gate drive voltage supply and a second connection state in which the gate is connected to a ground.

10. The protection circuit according to claim 9, further comprising:

a first resistor interposed between the gate and an emitter of the IGBT; and

a second resistor interposed between the gate of the IGBT and the connection changer or between the connection changer and the ground.

- 11. A protection circuit, to be provided for a circuit arrangement having an inductive load and an IGBT provided upstream of the load with respect to a flow of power current, the IGBT controlling an energization state of the load, the protection circuit comprising:
- a connection changer interposed between a portion on a connection line and a ground, the connection changer connecting and disconnecting between the portion and the ground;

wherein the connection line connects a gate of the IGBT and a gate drive voltage supply source.

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- 12. The protection circuit according to claim 11, further comprising:
- a first resistor interposed between the gate and an emitter of the IGBT; and
- 25 a second resistor interposed on a route from the gate

of the IGBT to the ground through the connection line and the connection changer.